OWNER'S GUIDE

Model No. 131-390

10 CENTS

RIDING MOWER

WARRANTY

For one year from date of purchase, MTD Products Inc , will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

SAFETY RULES

Your rotory mower is a precision piece of power equipment, not a plaything. Therefore excercise extreme caution at all times.

1. Remove all sticks, stones wire and other hazardous items from lawn before mowing. Such items are dangerous to both the mower and individuals in the vicinity of the mower.
2. Always disconnect spark plug cable during repair or refueling operations.
3. Always start engine from side opposite discharge chute.
4. **NEVER** place hands or feet under mower or near discharge chute while engine is running.
5. Always stop engine when not cutting grass.
6. Do not fill gas tank while engine is running. Do not spill gasoline on hot engine.
7. Keep children and pets away from area at all times during mowing operation. Never allow mower to discharge grass toward any person.
8. Do not attempt to start engine while mower is resting in high grass.
9. **Check all nuts and bolts, particularly the blade bolts, for tightness. This is especially important during the initial operation period. Make this same check periodically thereafter.**
10. While operating the mower, if any foreign object is struck stop the mower and inspect for damage. Do not restart or operate the mower until all damage has been repaired.

WARNING: Should excessive vibration develop, check your blade and blade shaft immediately. Do not operate mower with an unbalanced blade, a damaged blade shaft.

MTD PRODUCTS INC • 5389 WEST 130th ST. • P.O. BOX 2741 • CLEVELAND, OHIO 44111

FORM NO. 770-2886A

GENERAL INSTRUCTIONS

Your new riding mower is a machine designed to eliminate the hard work connected with mowing grass. It is constructed of the highest quality materials throughout and will give many years of useful service if given proper maintenance and care. Your riding mower is not a toy, but rather a useful machine and should not be used by anyone until they fully understand the operating instructions. The safety rules noted in this manual should be observed at all times.

ASSEMBLY INSTRUCTIONS

NOTE: *Refer to page "E" for illustration numbers.*
Your new riding mower is shipped preassembled except for the steering wheel, the seat, and the trailer hitch. These are assembled as follows:

1. Steering wheel –
   - Turn the wheels so they are pointed straight ahead.
   - Place the steering wheel (No.166) so it rests in notch in the steering frame and the gears mesh. Be sure the steering wheel is straight. Secure the end plate with two hex head machine screws 5/16 – 18 x 3/4 long (No. 163).
   - Place one of the two tube clamps (No. 168) on the steering column and the other on the steering frame and fasten with four hex head machine screws 1/4 – 20 x 7/8 long (No. 116) and locknuts (No. 48). Tighten the four screws evenly so the clearance between all four edges of the tube clamps (No. 168) is the same. Lubricate the gears with an automotive multi-purpose grease.
2. Trailer Hitch
   - Position the trailer hitch (47) on center of rear frame section and fasten with hex head cap screws 1/4 – 20 x 1/2 long (No. 60) and locknuts (No. 48).
3. Seat
   - Place seat on seat spring in one of the four positions and secure with carriage bolt 1/2 – 13 x 1" long (No. 83) and hex nut (No. 71).
4. Pneumatic tires on rear are over-inflated for shipment. Reduce tire pressure to 33 pounds before using mower.

OPERATING INSTRUCTIONS

Before starting mower, read and understand both your mower instructions and your engine instructions. Learn and observe all safety rules at all times.

Service engine in accordance with the engine manufacturer's recommendations. Fill gas tank with clean, fresh, regular grade gasoline. Fill engine crankcase with oil of the grade recommended in the engine instructions. BE SURE CRANKCASE IS FULL.

Place transmission shift lever (45) in "Neutral" or center position. The engine should be started ONLY when the transmission is in "Neutral." Be sure that the blade engaging lever (115) is in the "Disengage" position when starting engine. Blade should always be in "Disengage" position except during actual mowing operations.

When ready to start, place throttle control in "CHOKE" position and start engine in accordance with engine instructions. After engine starts, move throttle control to desired engine speed.

After the engine is operating, the transmission gears may be shifted to either forward or reverse drive position. The transmission should not be shifted unless the foot pedal is released. Drive motion ceases when the pedal is released.

This mower is equipped with a three speed transmission. Always release the clutch pedal before shifting from one gear to another. Always release the clutch pedal when shifting from forward to neutral or reverse. Failure to properly declutch can cause damage to the interior parts of the transmission.

The engine is stopped by placing the throttle control in "Stop" position.

A brief break-in period is essential to insure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tankful of gasoline. This is necessary on the initial run only. It is also recommended that the crankcase oil be changed initially, after the first two hours of operation. This allows for the removal from the crankcase of any impurities which may have accumulated during the break-in period. Subsequent oil changes should be made at intervals of 25 hours, or as working conditions dictate. Always check oil level before using your mower. BE SURE CRANKCASE IS FULL.

It is most important to understand that the pedal functions as follows:

1. To provide drive motion when depressed.
2. To stop drive motion when released.

Drive your mower to the cutting area with the blade disengaged. Engage the blade only when you are ready to cut the grass. The cutting blade may be engaged in the following manner:

1. Release foot pedal.
2. Move engine throttle control to fast position.
3. SLOWLY move blade engaging lever to "Engage" position. The blade is now in motion. The throttle control can now be moved to a slower speed if so desired. The blade is stopped by reversing the blade engaging lever to its opposite position (Disengaged).

To slow down or stop the mower, depress the brake pedal (91) with your left foot. This tightens a brake shoe around a brake drum or the rear axle.

To stop engine, move throttle control to "Stop" position. In this position, the ignition is automatically grounded. Keep throttle control in "STOP" position at all times when mower is not in use.

ADJUSTMENTS

Cutting height adjustment is made by raising and lowering the complete deck and blade assembly. Four cutting heights are available. To make the adjustment, push down the rod lever and move to the position which gives the desired cut.

The chain may require adjustment after a period of use. This is accomplished by loosening the hex nuts securing the bearing bracket assemblies and moving the rear axle assembly forward or backward as required.

CAUTION: Undue wear will develop if the chain is tightened excessively.

TOE-IN–The front wheels should toe-in 1/8 to 1/4 inch. This can be adjusted by removing the cotter pins (25) on the tie rod end (125), dropping the tie rod out of the steering arm, loosening the locknut (113) on the tie rod and screwing the tie rod end in or out to obtain the necessary toe-in. Reassemble.

MAINTENANCE AND LUBRICATION

Follow engine instructions for proper engine maintenance and lubrication. Lifetime graphoil front wheel bearings and rear axle bronze spherical bearings require little lubrication. However, a light film of oil applied to these bearings will reduce normal friction. A light film of oil should be maintained on the chain at all times except where mower is used under extremely dusty conditions.

The transmission is filled at the factory. If service is necessary, repack with (727-149) Lubriplate No. 310 Grease or its equivalent.

A sharp and balanced blade is essential for efficient mowing and long mower and engine life. When the blade is sharpened, equal amounts of metal must be filed from each side. The blade should be balanced before it is reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in their proper order and fastened securely.

NOTE: All set screws are held in place with a bolt and nut sealant (Such as Loctite). To remove set screws, heat the set screw to approximately 400° F. with a butane or similar torch and then remove with an Allen wrench. When replacing the set screws, it is not necessary to remove the old traces of the sealant. However, they must be free of grease and oil before applying more sealant. Gasoline will clean these parts.

Deck – The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower on its left side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose. CAUTION: Do not direct the stream of water at a hot engine as damage to the engine may result.

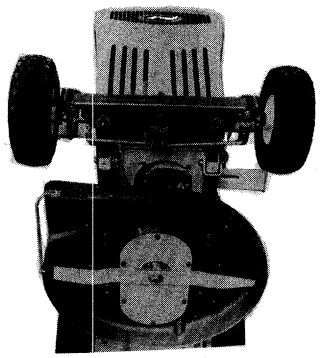
Should replacement of the blade drive "V" belt become necessary, it can be done in the following manner: *(See drawings on pages "E" and "F".)*

1. Lower deck assembly to the lowest cutting position.
2. Move blade engaging lever to "Disengage" position.
3. Remove belt guard cover (124). (Covers Pulley 110.)
4. Remove belt from pulley (110).
5. From front of mower, remove belt from transmission idler assembly (174).
6. Spring lower belt guard (109) slightly and slip drive belt from engine pulley (127).
7. Remove blade drive belt from assembly.
8. Reverse above procedure to install belt. Check all belt guards for proper belt clearance. When blade engaging lever is in "Engage" position, all belt guards and clips must be completely clear the belt.

The mower drive belt is replaced as follows:

1. Remove inspection plate and blade assembly as a single unit.
2. Remove belt from rear pulley (92).
3. Remove belt from blade idler assembly (174).
4. Spring lower belt guard (109) slightly and slip belt from engine pulley (127).
5. Reverse above procedure to install belt. Check all guards. When clutch pedal is depressed, all belt guards and clips must completely clear the belt.

All pneumatic tires should be maintained at approximately 33 pounds pressure. For mowing on soft sod, pressure can be reduced to minimum necessary to maintain full tire shape.

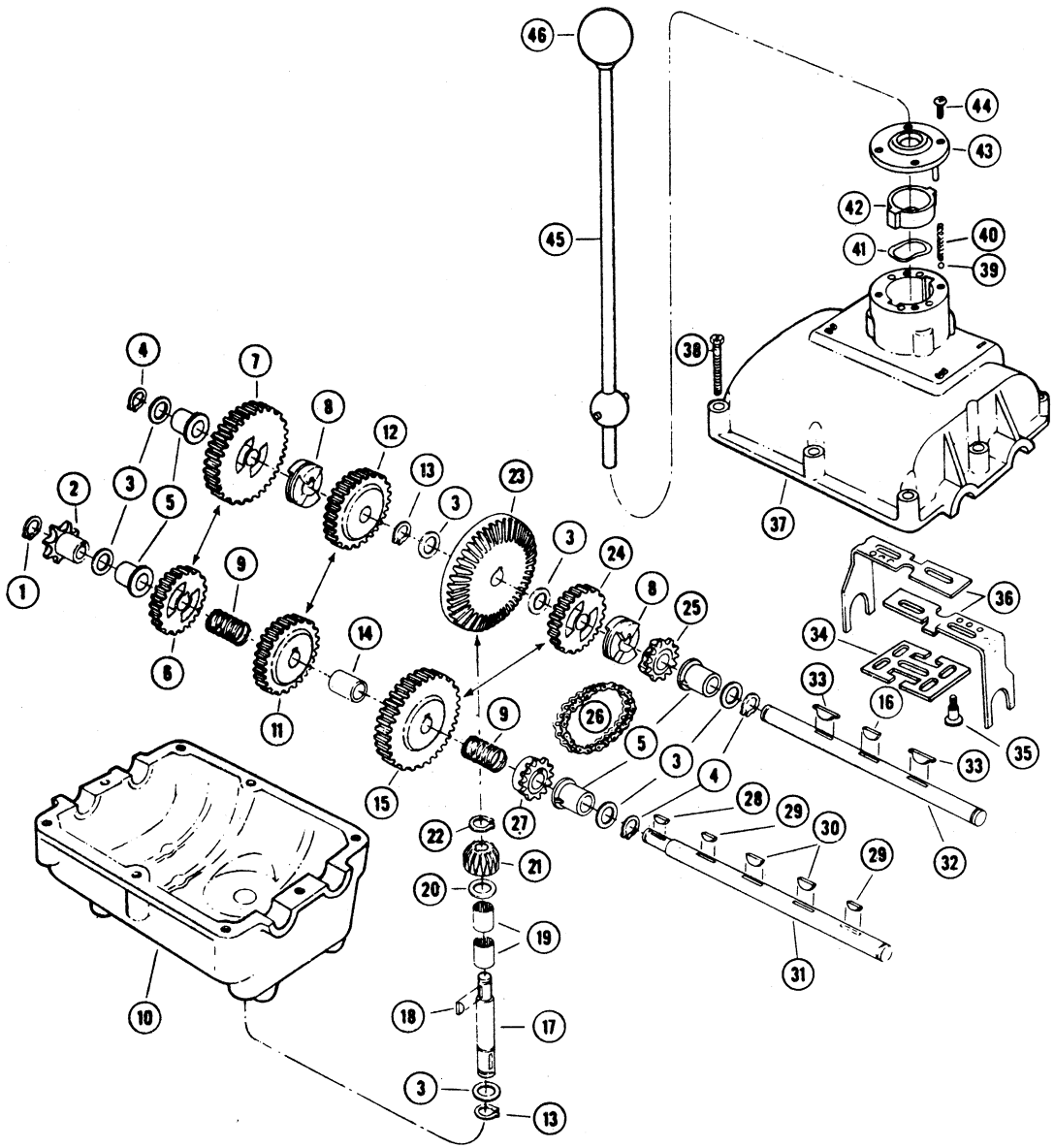


When servicing the underside of mower, disconnect sparkplug wire and ground to prevent accidental starting. Lift front end and position mower to rest on back of seat and rear wheels or fenders. Move height adjustment to lowest position.

STORAGE

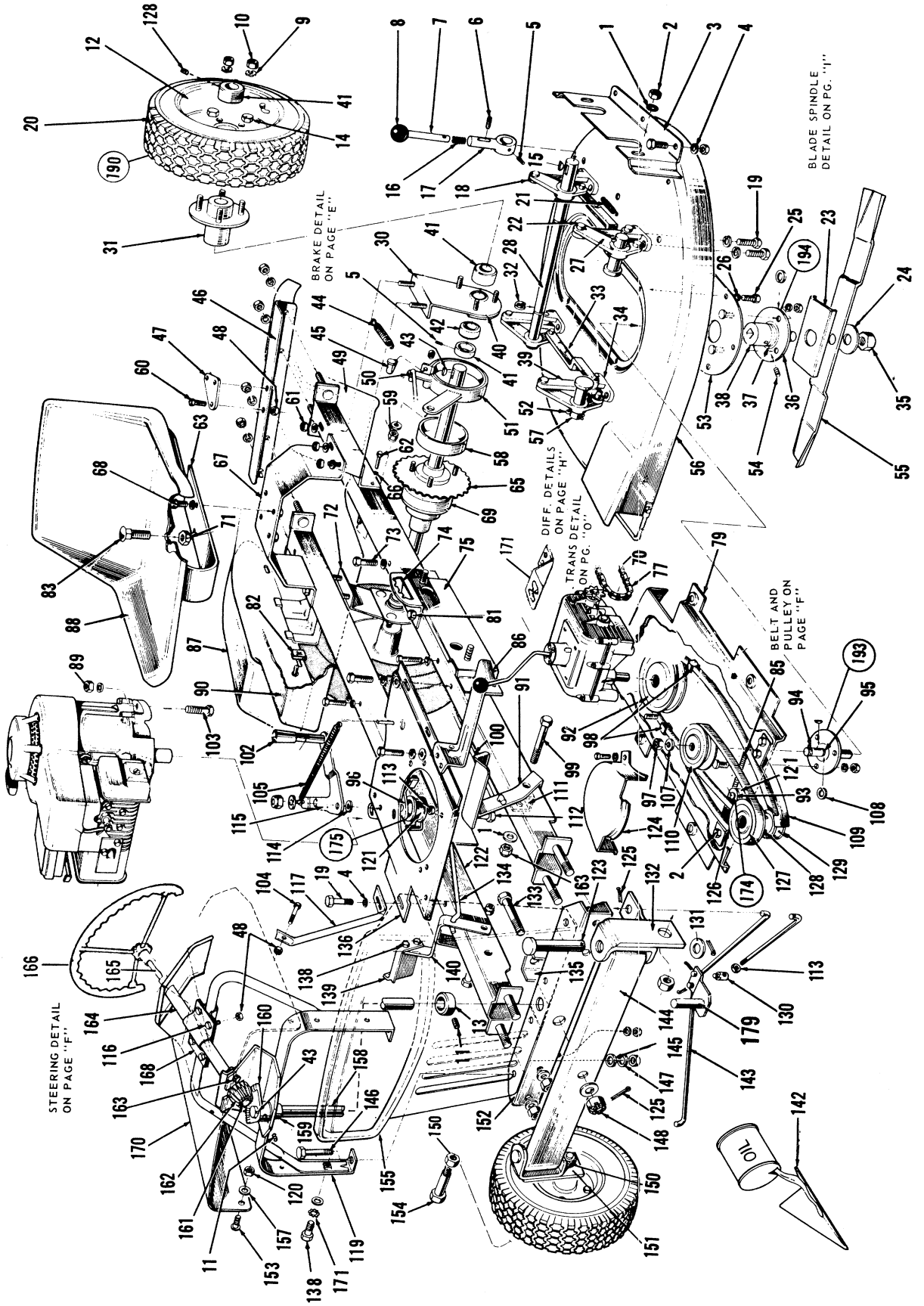
All grass and dirt should be removed from top surface and bottom of mower base. Cover unpainted metal parts, including the blade, with a coating of grease to prevent rust. Prepare engine in accordance with engine instructions. Place wooden blocks under frame to raise wheels from the floor. The storage place should be a clean, dry one.

REVERSING TRANSMISSION MODEL NO. 717-128



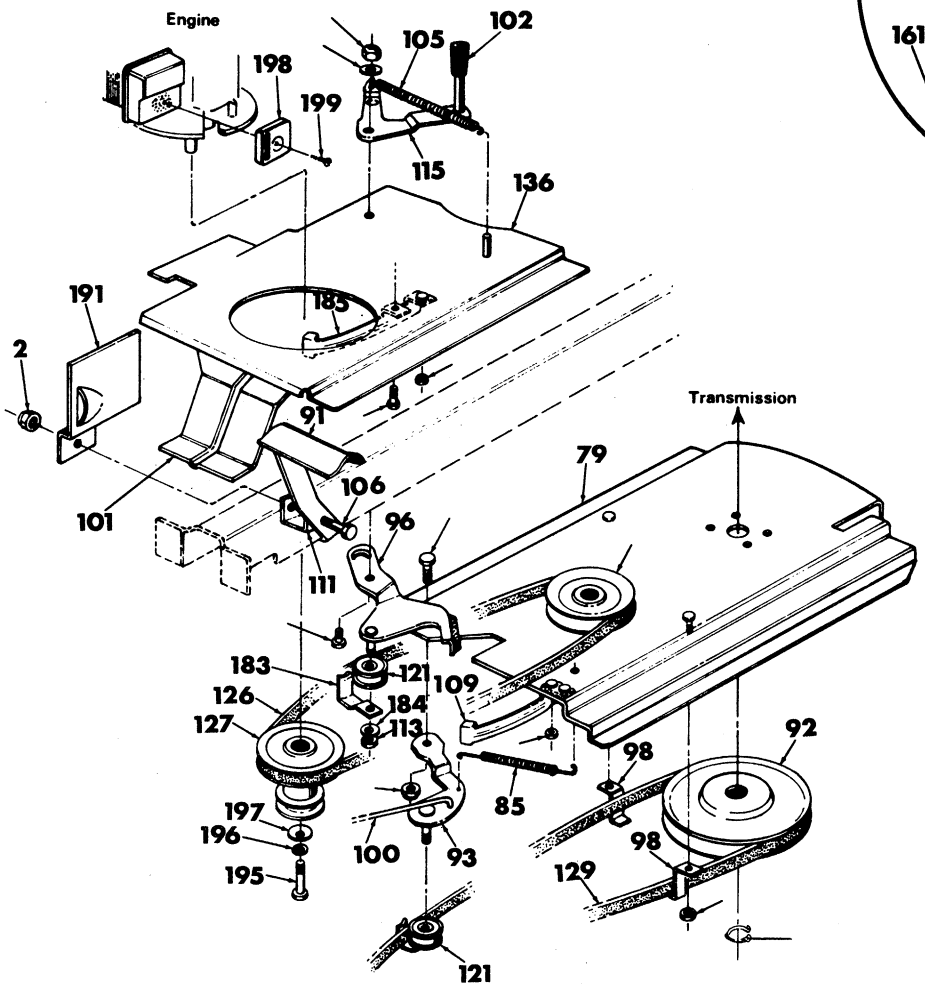
Key No.	Part No.	No. Req'd.	DESCRIPTION
1	A-1098	1	Use A-1300, Retaining Ring
2	B-1084	1	Use 748-852, 8-T Sprocket #41
3	A-1082	7	Washer
4	A-1106	3	Use 716-861, Retaining Ring
5	B-1101	4	Use 748-867, Flange Bearing
6	B-1072	1	20-T Gear - with Keyway
7	B-1077	1	30-T Gear - without Keyway
8	B-1083	2	Clutch Collar
9	A-1095	2	Compression Spring
10	R-1064 A	1	Lower Housing
11	B-1076	1	25-T Gear - with Keyway
12	B-1075	1	25-T Gear - without Keyway
13	A-1099	2	Use 716-870, Retaining Ring
14	A-1081	1	Use A-1325, Spacer
15	B-1078	1	30-T Gear - with Keyway
16	GM-124549	1	Use 714-868, Woodruff Key #9
17	B-1138	1	Use 711-869, Input Shaft
18	GM-124542	1	Use 714-229, Woodruff Key #2
19	A-1102	2	Needle Bearing (#091212)
20	A-1312	1	Thrust Washer
21	B-1105	1	Use 748-866, 16-T Bevel Pinion
22	A-1100	1	Use 716-865, Retaining Ring (#5100-50)
23	C-1085	1	42-T Bevel Gear
24	B-1071	1	20-T Gear - without Keyway
25	B-1087	1	12-T Sprocket - without Keyway
26	B-1090	1	Chain - 22 Pitches
27	B-1104	1	12-T Sprocket - with Keyway
28	GM-124544	1	Use 714-853, Woodruff Key #4
29	GM-124543	2	Woodruff Key #3
30	GM-431787	2	Woodruff Key #61
31	B-1094	1	Output Shaft - R. H.
32	B-1093	1	Drive Shaft
33	A-1086	2	Hi-Pro Key - Special
34	B-1074	1	Shifter Lock-Out Plate
35	A-1073	4	Shoulder Screw
36	B-1070	2	Shifter Fork
37	R-1065	1	Upper Housing
38	GM-9404988	8	Use 710-106, Hex Head Cap Screw - 1/4 - 20 x 1-1/4 Long
39	A-1037	2	Detent Ball
40	A-1097	2	Detent Spring
41	A-1096	1	Wave Washer
42	B-1091	1	Nylon Insert
43	B-1088	1	Nylon Cover
44	GM-9417606	4	Use 710-272, Truss Head Machine Screw - 10 - 24 x 1/2 Long
45	B-2111	1	Shifter Handle Assembly
46	A-1318	1	Shifter Knob

131-390

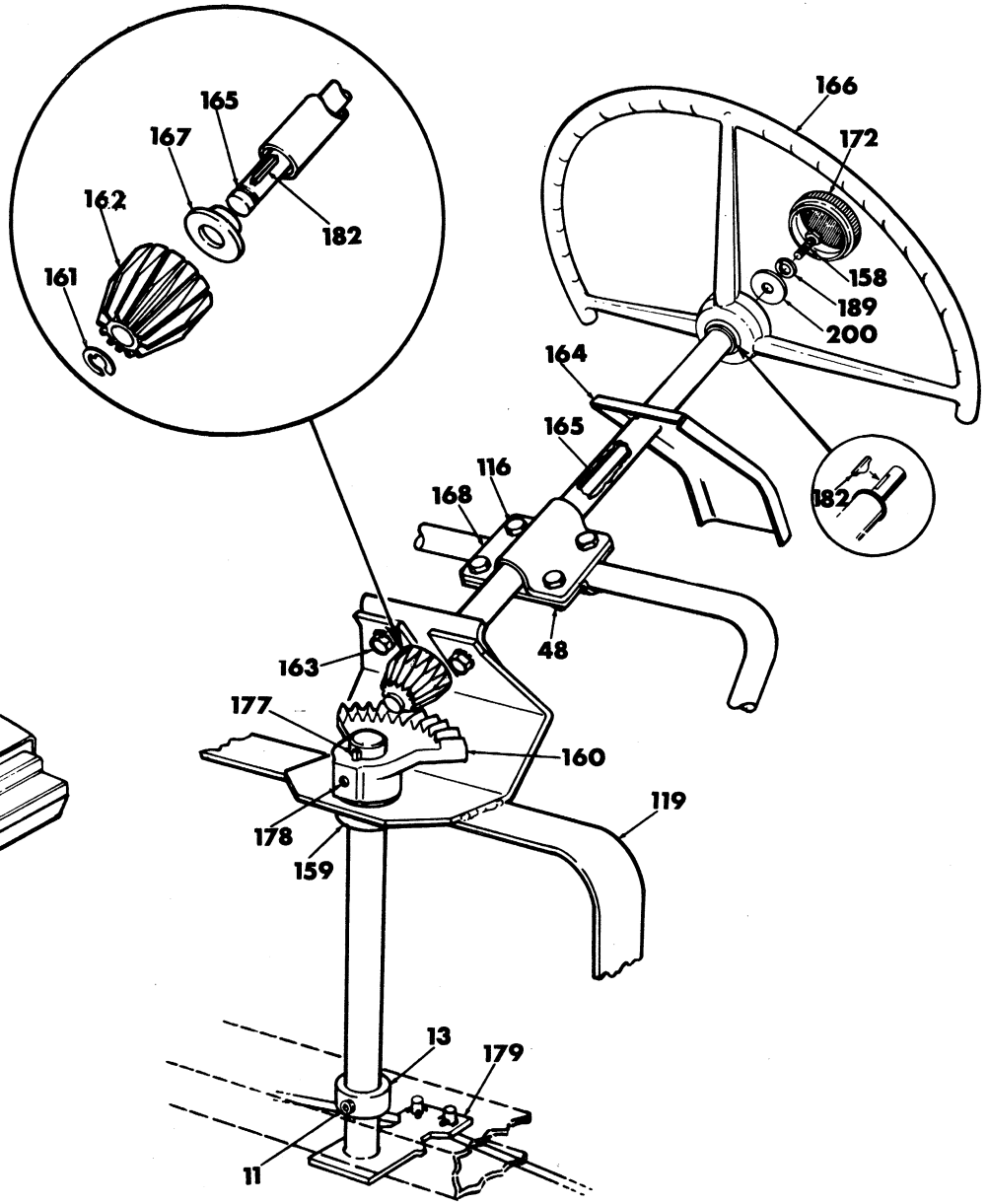

BRAKE DETAIL ON PAGE "E"
DIFF. DETAILS ON PAGE "H"
TRANS DETAIL ON PG. "O"
BLADE SPINDLE DETAIL ON PG. "I"
BELT AND PULLEY ON PAGE "F"
STEERING DETAIL ON PAGE "F"
OIL

When ordering replacement parts, be sure to specify your mower model number, part number, description of part, and the number of parts required. . . Parts and service should be handled by your nearest authorized service firm as recommended by your dealer. Request for parts and service received at the factory will be forwarded to the appropriate Central Service Distributor in your area for handling.

BELT AND PULLEY DETAIL



STEERING DETAIL AND MOWER ASSEMBLY DRAWING



PARTS LIST FOR MOWER MODEL NO. 131-390

Ref. No.	Part No.	DESCRIPTION
1	736-300	Flat Washer 3/8 ID x 7/8 OD *
2	712-430	Hex Elastic Stop Nut 3/8–16 thread *
3	437-8256	Side Plate
4	736-119	Spring Lockwasher 5/16 screw *
5	710-938	Allen Set Screw 1/4–28 x 1/4 long *
6	715-110	Spiral Pin 3/16 x 1-1/4 long *
7	310-8523	Rod Lever
8	722-106	Knob
10	712-798	Hex Nut 3/8–16 thread *
11	710-938	Allen Set Screw 1/4–28 x 1/4 long *
12	312-10108	Rim – Rear Wheel
13	748-386	Collar
15	714-365	Key – Hi Pro PH505 *
16	732-958	Compression Spring
17	312-8983	Lever – Lower Section
18	711-173	Clevis Pin .370 Dia.
19	710-259	Hex Head Cap Screw 5/16–18 x 5/8 lg*
20	734-298	Pneumatic Tire 12.5 x 4.5–6
21	732-146	Extension Spring
22	714-104	Int. Hairpin Cotter *
23	310-9858	Blade Drive Plate
24	310-7387	Washer *
25	710-237	Hex Hd. Cap Scw. 5/16–24 x 5/8 long *
26	736-607	Ext. Lockwasher for 5/16 screw *
27	310-8961	Bell Crank with Hub and Keyway
28	711-165	Height Rod
29	312-7364	Shift Lever Bracket Assy.
30	312-8553	Bearing Bracket Assembly – L.H.
31	310-8024	Hub Assembly
32	716-106	"E" Ring 5/8 Dia. Shaft *
33	310-9010	Connecting Rod
34	310-8982	Pivot Block
35	712-923	Hex Center Jam Nut 5/8–18 thread *
36	711-275	Lower Blade Spindle
37	310-8253	Housing
38	711-176	Square Drive Coupling
39	310-8303	Link
40	312-7294	Bearing Support Plate Assembly
41	711-139	Collar
42	748-391	Spherical Bearing – Bronze
43	714-314	Key – Hi Pro HP 606 *
44	732-118	Tension Spring
45	711-152	Adj. Link
46	437-7800	Frame - Rear Section
47	310-7804	Trailer Hitch
48	712-107	Hex Centerlock Nut 1/4–20 thread *
49	437-8559	Rear Fender Assembly - L.H.
50	310-8109	Pivot Lever
51	310-8551	Brake Band Assembly – Complete
52	714-106	Locking Pin
53	312-8557-1	Inspection Plate
54	715-104	Roll Pin 5/16 Dia. x 1-3/8 long *
55	312-9283	Blade
56	437-9380	Deck Assembly
57	711-174	Clevis Pin .625 Dia.
58	310-9055	Brake Cup
59	712-429	Elastic Stop Nut 5/16-18 x 5/16 lg.*
60	710-289	Hex Hd. Cap Scw. 1/4-20 x 1/2 long *
61	712-267	Hex Nut 5/16 thread *
62	710-240	Hex. Hd. Thread Cut Scw. 10-32x1/2 lg*
63	723-136	Spring Seat
65	310-9054	Sprocket
66	736-147	Ext. Lockwasher #10 Screw *
67	312-8536	Seat Support Assembly
68	710-444	Hex Hd. Cap. Scw. 5/16–18 x 1 lg.*
69	901-9693	Differential
70	713-723	Master Link
71	712-384	Hex Center Nut 1/2 – 13 thread *
72	312-8552	Bearing Bracket Assembly – R.H.
73	710-395	Hex Hd. Cap Scw. 5/16- 18 x 2 lg. *
74	310-8300	Adjustment Bracket
75	437-8549	Side Channel Assembly – L.H.
77	713-106	Roller Chain #41 31-1/2 w/o Master Link
79	437-8502	Blade Mounting Plate Assembly
81	710-621	Hex Hd. Cap Scw. 5/16- 18 x 1/2 long *
82	712-526	Tinnerman Clip
83	710-385	Carriage Bolt 1/2 - 13 x 1" long *
84	310-7353	Belt Clip
85	732-433	Tension Spring
86	310-8703	Foot Rest
87	437-8558	Rear Fender Assembly - R.H.
88	312-8535	Seat
89	712-123	Hex Nut 5/16 - 24 thread *
90	437-10185	Shroud – Rear
91	310-8700	Foot Pedal Assembly
92	756-359	Pulley - 6" Diameter
93	310-7926	Transmission Idler Bracket Assy.
94	711-175	Upper Blade Spindle
95	741-919	Ball Bearing
96	310-7422-1	Blade Idler Bracket Assembly
97	712-922	Hex Jam Nut ½ - 20 x 5/16 thread *
98	310-8086	Belt Clip
99	710-937	Hex Hd. Cap Scw. 3/8–16 x 2-1/2 lg. *
100	310-8113	Linkage Rod
101	437-9296	Heat Shield
102	305-7343	Grip Black (or Rod Cap)
103	710-158	Hex Hd. Cap Scw. 5/16–24 x 1-1/4 lg. *
104	710-606	Hex Hd. Cap Scw. 1/4–20 x 1-1/2 lg. *
105	732-158	Blade Tension Spring
106	711-105	Shoulder Bolt
107	736-921	Spring Lockwasher 1/2 Screw *
108	716-101	Truarc Snap Ring
109	312-7400-1	Belt Guard
110	310-9925	Pulley – 4" Dia. x 1/2 Bore
111	310-7832	Spacer Bracket 13/32 I.D.
112	710-373	Shoulder Bolt
113	712-711	Hex Jam Nut 3/8 – thread *
114	736-108	Flat Washer 33/64 x 3/4 *
115	310-7898	Blade Tension Bracket Assembly
116	710-206	Hex Hd. Machine Scw. 1/4–20 x 7/8 lg.*
117	321-8715	Steering Support
118	712-287	Hex Nut 1/4 – 20 thread *
119	321-8704	Steering Frame Assembly
120	712-324	Elastic Stop Nut 1/4 – 20 thread *
121	756-370	Idler Bearing Assembly
122	437-8550	Side Channel Assembly – R.H.
123	710-169	Clevis Pin
124	437-8257	Belt Guard Cover
125	714-474	Cotter Pin 1/8 Dia. x 3/4 long *
126	754-107	"V" Belt ½ x 30
127	756-147	2 Step Pulley – Engine
128	710-938	Allen Set Screw 1/4 – 28 x 1/4 *
129	754-111	"V" Belt 1/2 x 45 Gates
130	711-197	Tie Rod End
131	736-116	Flat Washer 5/8 I.D. *
132	437-9821	Wheel Bracket Assembly – L.H.
133	710-193	Hex Head Cap Screw - Heat Treated
134	310-8814	Clutch Rod
135	310-7787	Spacer Bracket 25/32
136	437-8555	Engine Mount Assembly
138	710-258	Hex Hd. Cap Scw. 1/4–20 x 5/8 lg. *
139	310-7431	Foot Pedal
140	310-7995	Foot Lever Assembly
142	312-7299	Oil Fill Trough
143	711-198	Tie Rod End
144	437-8033	Pivot Bar Assembly
145	736-264	Flat Washer 5/16 S.A.E.*
146	710-116	Hex Hd. Cap Scw. 5/16–18 x 2" lg.*

PARTS LIST FOR MOWER MODEL NO. 131-390 (Continued)

Ref. No.	Part No.	DESCRIPTION	Ref. No.	Part No.	DESCRIPTION	Ref. No.	Part No.	DESCRIPTION
147	310-7386	Washer *	162	748-866	Gear	182	714-110	Key Hi Pro #503*
148	712-114	Castle Nut ½–20 thread *	163	710-198	Sems Hex Hd. Mach. Scw. 5/16–18x3/4 lg.	183	310-8086	Belt Clip
149	501-10110	Wheel Ass'y. complete ⊕	164	394-8708	Steering Tube Assembly	184	736-300	Washer *
	312-10105	Rim only-includes Hub	165	711-401	Steering Column Rod	185	312-7401-1	Belt Guard
	748-107	Flange Bearing	166	723-198	Steering Wheel Assembly	186	726-111	Push Cap
	734-255	Valve Stem				187	714-365	Key Hi Pro #505
	734-299	Pneu. Tire Tubeless	167	748-108	Flange Bearing	188	723-232	Seat Cover
		4.10/3.50 – 4	168	394-8714	Tube Clamp	189	736-210	Rubber Washer
150	712-923	Hex Nut 5/8–18 thread *	169	710-419	Allen Hex Hd. Set Scw. 1/4–20 x 1/4	190	502-10108	Wheel Assembly Complete ⊕
151	437-9822	Wheel Bracket Ass'y – R.H.	170	437-8778	Hood	191	312-8164	Muffler Guard
152	437-8487	Front Channel Assembly	171	437-8816	Shift Bracket	192	901-8486	Tie Rod Assembly – Complete
153	710-104	Truss Head Machine Screw	172	723-106	Steering Wheel Cap	193	901-8475	Upper Spindle Assembly – Complete
154	710-364	Axle Bolt	173	310-9007	Dust Cap	194	901-9396	Lower Spindle Assembly – Complete Less Rollpin & Square Drive Coupling
155	312-8718	Front Grill	174	901-9176	Transmission Idler Ass'y - Complete			
157	736-142	Washer	175	901-9175	Blade Idler Ass'y– Complete	195	710-152	Hex Hd. Cap Screw 3/8–24 x 1 lg. *
158	710-289	Hex Head Cap Screw – 1/4–20 x 1/2" lg.*	176	712-107	Hex Centerlock Nut 1/4–20 thread *	196	736-169	Lockwasher 3/8 Screw *
			177	714-388	Key *	197	736-112	Belleville Washer
159	748-138	Flange Bearing	178	710-938	Set Screw 1/4–28 x 1/4 long	198	312-9382	Exhaust Deflector
160	748-137	Gear Segment	179	394-8712	Steering Post Assembly	199	09338	Screw
161	716-865	Truarc Snap Ring	180	901-10155	Steering Assembly Complete	200	736-211	Washer

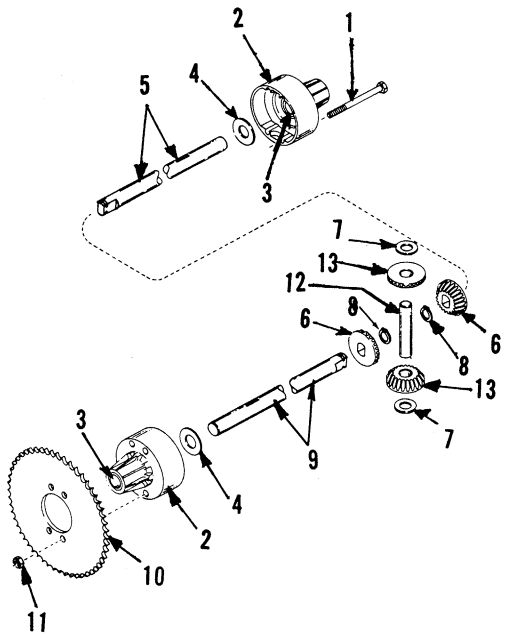
* For faster service, obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

⊕ See Page "K"

901-9693 DIFFERENTIAL

If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet.

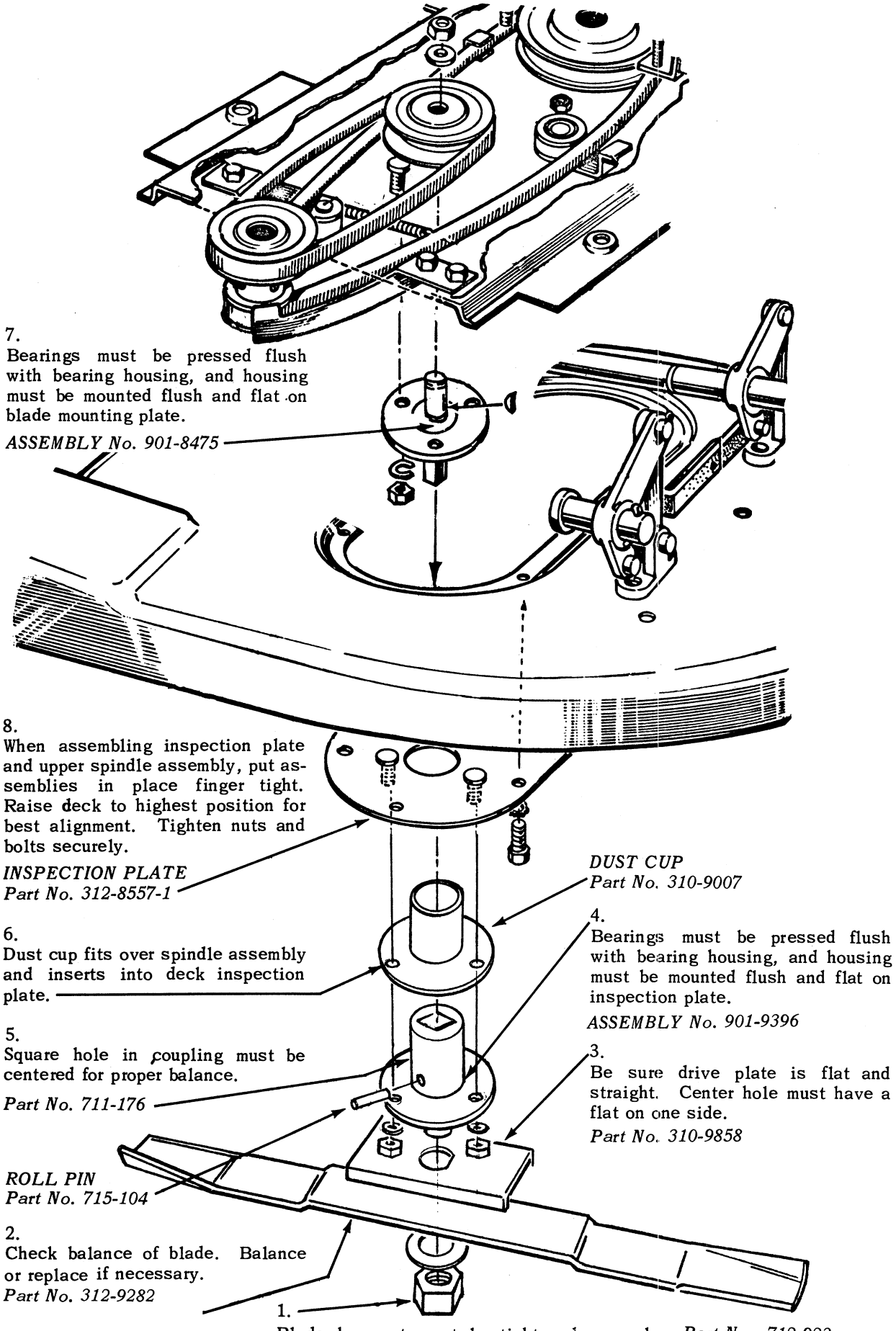
Check the "Yellow Pages" of your telephone book under "Engines – Gasoline."



901-9693 DIFFERENTIAL

Ref. No.	Part No.	DESCRIPTION
1	710-363	Hex Head Cap Screw 5/16–18 x 4 lg.
2	719-138	Differential Housing
3	748-155	Sleeve Bearing
4	736-188	Flat Washer
5	738-123	Shaft
6	748-185	Miter Gear Double "D" Hole
7	736-187	Flat Washer
8	716-101	Truarc Snap Ring
9	738-124	Shaft
10	310-9054	Sprocket
11	712-267	Hex Nut
12	711-276	Drive Pin
13	748-158	Miter Gear – Round Hole

DUST CUP AND SPINDLE ASSEMBLY INSTALLATION



7.
Bearings must be pressed flush with bearing housing, and housing must be mounted flush and flat on blade mounting plate.

ASSEMBLY No. 901-8475

8.
When assembling inspection plate and upper spindle assembly, put assemblies in place finger tight. Raise deck to highest position for best alignment. Tighten nuts and bolts securely.

INSPECTION PLATE
Part No. 312-8557-1

DUST CUP
Part No. 310-9007

6.
Dust cup fits over spindle assembly and inserts into deck inspection plate.

4.
Bearings must be pressed flush with bearing housing, and housing must be mounted flush and flat on inspection plate.

ASSEMBLY No. 901-9396

5.
Square hole in coupling must be centered for proper balance.

Part No. 711-176

3.
Be sure drive plate is flat and straight. Center hole must have a flat on one side.

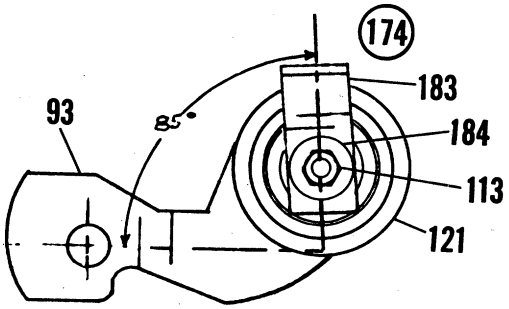
Part No. 310-9858

ROLL PIN
Part No. 715-104

2.
Check balance of blade. Balance or replace if necessary.
Part No. 312-9282

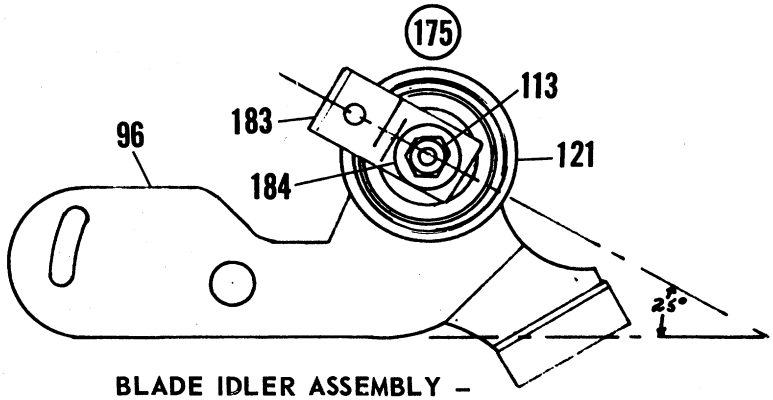
1.
Blade hex nut must be tightened securely. *Part No. 712-923*

SERVICE NOTES



TRANSMISSION IDLER ASSEMBLY –

COMPLETE 901-9176



BLADE IDLER ASSEMBLY –

COMPLETE 901-9175

BLADE PULLEYS

With mower resting on back of seat and rear wheels, sight down blade belt from front of mower. Note if blade idler pulley is in line with blade spindle pulley and top section of engine pulley. If alignment is necessary, bend idler bracket assembly up or down as needed. Do not damage or bend belt clip on idler bracket assembly.

BELT WEAR – Belt Guards and Clips

Belt guards and clips if improperly positioned will cause premature belt wear. All belt guards and clips must completely clear the belt when the belt is tightened. They should also assist in freeing the belt from the engine pulley when the belt is loose. The belt clip on the blade idler bracket assembly may be checked by removing the top belt guard. Observe belt and pulley action while operating the blade disengage lever. The belt clip on the drive idler bracket assembly may be checked by removing the inspection plate under the deck. Observe belt and pulley action while operating the clutch pedal.

CREEPING

"CREEPING" may be caused if the idler bracket assembly does not move all the way back when the clutch pedal is released. This may be caused by insufficient spring pressure, a bent clutch control rod or a binding idler bracket. Check by removing the inspection plate under deck. Observe idler pulley action while operating the clutch pedal. If idler bracket binds, lubricate with an all purpose grease.

CREEPING OR BELT WEAR

The position of the belt clip on the idler bracket assembly is important for proper operation of your mower. Improper position of the belt clip can cause damage to the belt or it can allow the mower to "creep" when the clutch pedal is not depressed. Proper positioning will not allow the belt clip to touch the belt when the belt is tightened. It also "traps" the belt away from the engine pulley when the belt is loose. The drawing above shows the correct position for the belt clip. Adjustment is made by loosening the hex nut, adjusting belt clip to position shown and retightening hex nut securely.

BELT WEAR – PULLEYS

For proper belt wear, all pulleys, including the idler pulley, must be on the same plane. Improper alignment will cause rapid belt wear.

DRIVE PULLEYS

Alignment may be made by removing inspection plate under deck. Check alignment with a straight edge. The transmission pulley is held in place with a snap ring. It should not need adjustment. The engine pulley is held in position by a set screw. The set screw is treated with a nut and bolt sealant. The set screw can be removed with an Allen wrench while applying heat with a small torch. The sealant disintegrates at 400°. The idler bracket assembly is held in position by a shoulder bolt. If re-alignment is needed, it is necessary to bend bracket up or down as alignment requires. Care must be taken not to damage the belt clip.

When ordering replacement parts, be sure to specify your mower model number, part number, description of part, and the number of parts required . . . Parts and service should be handled by your nearest authorized service firm as recommended by your dealer. Request for parts and service received at the factory will be forwarded to the appropriate Central Service Distributor in your area for handling.

FRONT			
Tube Type		**Tubeless**	
501-9647	Wheel Assembly Complete	501-10110	Wheel Assembly Complete
312-9647	Rim Only	312-10105	Rim Only
734-210	Tire 4.10 x 3.50-4	734-299	Tubeless 4.10 x 3.50-4
734-211	Tube 4.10 x 3.50-4	734-255	Valve Stem
REAR			
501-8780	Wheel Assembly Complete	502-10108	Wheel Assembly Complete
312-8780	Rim Only	312-10108	Rim Only
734-218	Tire 12.50 x 4.50-6	734-298	Tubeless 12.50 x 4.50-6
723-219	Tube 12.50 x 4.50-6	734-255	Valve Stem
		503-10108	Wheel Assembly Complete
		312-10108	Rim Only
		734-321	Tubeless 13.00 x 5.00-6
		734-255	Valve Stem

For faster service on wheel replacements, please include all information on side of tire.

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